

AMENDMENTS TO THE CLAIMS

Please cancel claims 1-26 and add new claims 27-46, as shown below. A complete listing of the claims, showing their current status, is provided below.

1-26. (Cancelled)

27. (New) An array of polypeptide capture agents, wherein said polypeptide capture agents are linked to a substrate and are free of a particular amino acid.

28. (New) The array of claim 27, wherein said polypeptide capture agents are chemically modified so that they are free of said particular amino acid

29. (New) The array of claim 27, wherein said particular amino acid is non-reactive with a labeling agent.

30. (New) The array of claim 27, wherein said particular amino acid is chosen from arginine, lysine, cysteine, histidine, aspartic acid or glutamic acid.

31. (New) The array of claim 27, wherein said particular amino acid is lysine.

32. (New) The array of claim 27, wherein said polypeptide capture agents each contains a different amino acid sequence.

33. (New) The array of claim 27, wherein said array comprises 10-100,000 polypeptide capture agents.

34. (New) An array of polypeptide capture agents, wherein said polypeptide capture agents are linked to a substrate and are made up of amino acids chosen from a group of amino acids that is free of arginine, lysine, cysteine, histidine, aspartic acid or glutamic acid.

35. (New) An array of polypeptide capture agents, wherein said polypeptide capture agents are linked to a substrate and made up of amino acids chosen from:

ala, cys, asp, glu, phe, gly, his, ile, lys, leu, met, asp, pro, gln, ser, thr, val, trp, tyr;

ala, cys, asp, glu, phe, gly, his, ile, leu, met, asp, pro, gln, arg, ser, thr, val, trp, tyr;

ala, asp, glu, phe, gly, his, ile, lys, leu, met, asp, pro, gln, arg, ser, thr, val, trp, tyr;
ala, cys, asp, glu, phe, gly, ile, lys, leu, met, asp, pro, gln, arg, ser, thr, val, trp, tyr;
ala, cys, glu, phe, gly, his, ile, lys, leu, met, asp, pro, gln, arg, ser, thr, val, trp, tyr; or
ala, cys, asp, phe, gly, his, ile, lys, leu, met, asp, pro, gln, arg, ser, thr, val, trp, tyr.

36. (New) A system for evaluating the presence of a target polypeptide in a sample, said system comprising:

- a) an array according to claim 27; and
- b) a labeling agent that does not covalently bind to said polypeptide capture agents of said array.

37. (New) The system of claim 36, wherein said labeling agent covalently bonds to a reactive side chain of said particular amino acid.

38. (New) The system of claim 37, wherein said particular amino acid is chosen from arginine, lysine, cysteine, histidine, aspartic acid or glutaminic acid.

39. (New) The system of claim 38, wherein said particular amino acid is lysine.

40. (New) The system of claim 36, wherein said labeling agent comprises a fluorophore.

41. (New) The system of claim 36, wherein said labeling agent comprises a radioisotope.

42. (New) The system of claim 36, wherein said system further comprises a target molecule that binds to a capture agent on said array.

43. (New) The system of claim 42, wherein said labeling reagent binds to said target and does not bind to said capture agent.

44. (New) A kit comprising an array according to claim 1.

45. (New) The kit of claim 44, further comprising a labeling agent that does not covalently bond to said polypeptide capture agents of said array.

46. (New) The kit of claim 45, further comprising a target molecule that binds to a capture agent on said array and also binds to said labeling agent.